



MaxiScale – 0.2 μm

Up-Scaling Element

Membrane Filter Cartridges



Sartopore[®]

platinum

A New Vision of Perfection.
A New Class of Sterile Filtration.

По вопросам продаж и поддержки обращайтесь:

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Description

Sartopore® Platinum defines the new benchmark for sterilizing-grade filtration. These cartridges contain a unique heterogeneous double layer of hydrophilized polyethersulfone membranes and are specially designed to meet the requirements for filtration of a broad range of pharmaceutical products.

For the manufacturers of pharmaceuticals it is of great benefit to use identical filter materials from early stage development up to large-scale manufacturing. However, care must be taken to use the results from small-scale trials for the sizing of large scale processes.

TwinPleat Innovation

The new TwinPleat Technology (patent pending) is characterized by an alternating sequence of longer and shorter membrane pleats, positioned in a specific angle. This special design maximizes the effective filtration area (e.g. +66% compared to Sartopore® 2) without compromising the hydrodynamics during filtration. Thus, the cartridges are characterized by an outstanding total throughput by which the filtration process will be most efficient.

Sartoscale for Filter Material Selection

Flat filters like SartoScale units are perfect for conducting comparability trials in order to find the best filter material or filter combinations for the specific application. However, the difference in membrane geometry and different flow characteristics of pleated filter elements in many case ends up in different results. Therefore flat filter membranes should not be used for up-scaling trials to the process scale.

Sartorius Stedim Biotech recommends the usage of flat filters only for comparability trials.

Scalability

Due to the identical principal construction of the different sizes and full product accessibility to the entire membrane even in the depth of the pleats, Sartopore Platinum filters are perfectly scalable from R&D to production scale.

However, the smallest pleated elements (size 4 capsules, 210 cm² filtration area) as well as all MidiCaps® use the standard pleating geometry. TwinPleat Technology is used for all 10" to 30" filter cartridges and T-Style MaxiCaps®.

It has been shown that at least for standard buffer solutions the same flow rate and total throughput per membrane area are valid for all different filter sizes. But e.g. for liquids with a higher viscosity it cannot be fully excluded that the difference in pleating geometry leads to different results which of course offers a risk for an overestimation for larger elements.

New MaxiScale Format

Therefore, a larger pleated 1" element was developed for which the same pleating geometry (TwinPleat) was used as for larger elements.

All used material are identical to standard Sartopore® Platinum filters. Therefore, MaxiScale elements are the perfect tool for up-scaling trials especially for more viscous or highly particle containing solutions.

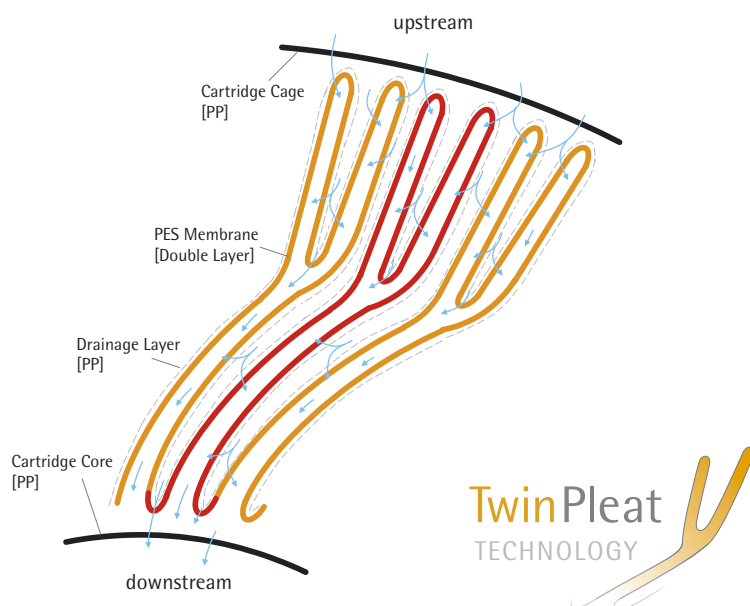
MaxiScale is a ready-to-use filter element, consisting of a 1" filter element (0.1 m² filter membrane), integrated into a polypropylene housing.

Important Note

The MaxiScale device of Sartopore® Platinum filters should only be used for upscaling purposes. No Validation Guide is available. Therefore, MaxiScale must not be used as a standard process filter.

Packaging:

All MaxiScale elements are double wrapped.



Specifications

Materials of Construction

Prefilter membrane	Polyethersulfone, asymmetric
Endfilter membrane	Polyethersulfone, asymmetric
Support fleece	Polypropylene
Core	Polypropylene
End Caps	Polypropylene
Capsule Housing	Polypropylene
O-rings	Silicone

Pore Size

0.45 µm + 0.2 µm (double layer)

Available Sizes | Filtration Area

MaxiScale 0.1 m² | 1.07 ft²

Available Connectors

FF, OO

O: 1/2" Single-stepped hose barb

F: TC Flange 25 mm (3/4")

Ordering Information

5491307HC--**--V (2 pcs.)

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